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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,796	11/04/2003	Hongyong Zhang	07977-117003	3991
26171	7590	12/23/2004	EXAMINER	
FISH & RICHARDSON P.C. 1425 K STREET, N.W. 11TH FLOOR WASHINGTON, DC 20005-3500			NGO, HUYEN LE	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/699,796

Applicant(s)

ZHANG ET AL.

Examiner

Julie-Huyen L. Ngo

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 17-36 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21-36 is/are allowed.
- 6) ☒ Claim(s) 17 and 20 is/are rejected.
- 7) ☐ Claim(s) 18 and 19 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/16/2004</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group II and species B (claims 17-36) in the reply filed on October 1, 2004 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Shiraki et al. (US5926234A).

Shiraki et al. teach (Fig. 15) a method for manufacturing a liquid crystal display device comprising:

- forming a first electrode 43 in an active matrix circuit region over a substrate;
- forming a second electrode 63a in a driver circuit region over the substrate;
- forming a third electrode 62 over the substrate, wherein the third electrode surrounds the active matrix circuit region and the driver circuit region, wherein the first through the third electrodes are electrically connected with each other; and
- electrically separating (disconnecting) the third electrode from the first and the second electrodes (col. 3 lines 45-47).

Allowable Subject Matter

Claims 18 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claim 18 is allowable since there is no prior art that teaches a method for manufacturing a display comprising the first through the third electrodes made of aluminum.

Claim 19 is allowable since there is no prior art that teaches a method for manufacturing a display comprising the third electrode forming a protective capacitor.

Claims 21-36 are allowed.

Claims 21, 25, 29, 31, 33 and 35 are allowed since there is no prior art that teaches a method for manufacturing a display comprising the steps of forming a first electrode in an active matrix circuit region over a substrate; forming a second electrode in a driver circuit region over the substrate; forming a third electrode over the substrate, wherein the third electrode surrounds the active matrix circuit region and the driver circuit region wherein;

- the first through the third electrodes are formed on a same layer (claim 21).
- the third electrode has a larger width than that of the first and second electrodes (claims 25, 29, 31, 33, 35).

Claims 22-24, 26-28, 30, 32, 34 and 36 are allowable since they depend on the allowed claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Wu (US 5233448 A) teaches a method of manufacturing a liquid crystal display panel including photoconductive electrostatic protection.

Yoshida et al. (US 5504348 A) disclose a thin film transistor array comprising short-wiring is formed on the outside of a display region on the insulative substrate on which the pixel electrodes are arranged, and the short-wiring is connected to at least two of the address lines and the data lines by a two-terminal element having non-linear resistance characteristics defining voltage/current characteristics on the basis of a space charge limited current.

Takahashi et al. (US 6104449 A) disclose a liquid crystal display device wherein each of the plurality of gate lines and the plurality of source lines is connected to the short ring via respective ones of the plurality of first inspection signal voltage input terminals and respective ones of the plurality of depletion-type thin film transistors, and the plurality of depletion-type thin film transistors is located between the short ring and the plurality of first inspection signal voltage input terminals, the plurality of depletion-type thin film transistors control electrical conduction between the short ring and the plurality of gate lines and source lines.

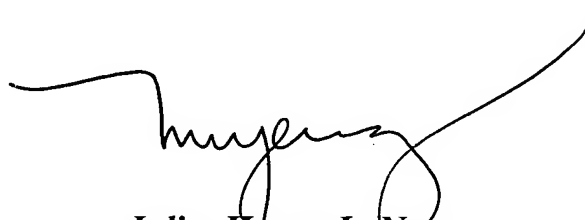
Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (571) 272-2293.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

December 21, 2004



Julie -Huyen L. Ngo
Primary Examiner
Art Unit 2871